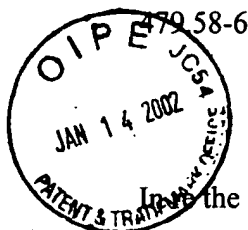


COPY OF PAPERS
ORIGINALLY FILED

1647-
#4
PATENT
UC #89-053-6



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of)

NAPOLEONE FERRARA, DENIS)
GOSPODAROWICZ and JEAN PLOUET)

Serial No: 09/929,770)

Filed: August 14, 2001)

For: ENDOTHELIAL CELL GROWTH)
FACTOR, METHODS OF ISOLATION)
AND EXPRESSION)

) Group Art Unit: 1647

) Prior Examiner: Lorraine Spector

Box IDS

Assistant Commissioner for Patents
Washington, D.C. 20231

RECEIVED

JAN 17 2001

TECH CENTER 1600/2900

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Box IDS, Assistant Commissioner for Patents, Washington, D.C. 20231 on November 7, 2001.

Howard M. Peters (Reg. No. 29,202)

TRANSMITTAL LETTER

Sir:

Transmitted herewith are the following documents:

1. Transmittal Letter (2 pgs.) in duplicate;
2. Transmittal of Information Disclosure Statement (2 pgs.) in duplicate; and
3. Postcard.

The enclosed are copies of IDS and PTO 1449 forms filed in parent application for the past 12 years. See Serial No. 08/473,276.

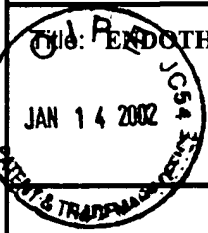
If additional fees are due, the Commissioner is hereby authorized to charge such fees or to credit any overpayment to Deposit Account No. 16-1331.

Respectfully submitted,

Date: November 7, 2001



Howard M. Peters (Reg. No. 29,202)
Attorney of Record
PETERS, VERNY, JONES & BIKŠA, LLP
385 Sherman Avenue, Suite 6
Palo Alto, CA 94306
Telephone: (650) 324-1677
Facsimile: (650) 324-1678
Attorney Docket No. 479.58-6 (HMP)

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))			Docket No. 479.58-6
In Re Application Of: NAPOLEONE FERRARA, DENIS GOSPODAROWICZ and JEAN PLOUET			
Serial No. 09/929,770	Filing Date August 14, 2001	Examiner Lorraine Spector	Group Art Unit 1647
<div style="display: flex; justify-content: space-between;"><div style="width: 30%;"><p>Title: ENDOThELIAL CELL GROWTH FACTOR, METHODS OF ISOLATION AND EXPRESSION</p></div><div style="width: 65%; text-align: right;"><p>RECEIVED JAN 17 2001 TECH CENTER 1600/2900</p></div></div> <div style="text-align: center; margin-top: 20px;"><p>Address to: Assistant Commissioner for Patents Washington, D.C. 20231</p><p>37 CFR 1.97(b)</p><p>1. <input checked="" type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.</p><p style="text-align: center; margin-top: 20px;">37 CFR 1.97(c)</p><p>2. <input type="checkbox"/> The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:</p><div style="margin-left: 40px; margin-top: 10px;"><p><input type="checkbox"/> the statement specified in 37 CFR 1.97(e);</p><p style="text-align: center; margin-top: 10px;">OR</p><p><input type="checkbox"/> the fee set forth in 37 CFR 1.17(p).</p></div></div>			

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
479.58-6

In Re Application: **NAPOLEONE FERRARA, DENIS GOSPODAROWICZ and JEAN PLOUET**

Serial No.
29,770

Filing Date
August 14, 2001

Examiner
Lorraine Spector

Group Art Unit
1647

ENDOTHELIAL CELL GROWTH FACTOR, METHODS OF ISOLATION AND EXPRESSION

RECEIVED

JAN 17 2001

Payment of Fee

TECH CENTER 1600/2900

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 16-1331 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F _____)

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited Nov. 7, 2001 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Howard M. Peters (Reg. No. 29,202)

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

Howard M. Peters

Signature

Dated: November 7, 2001

Howard M. Peters (Reg. No. 29,202)
PETERS, VERNY, JONES & BIKSA, LLP
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Palo Alto, CA 94306
Telephone No.: (650) 324-1677
Fax No.: (650) 324-1678

CC:



COPY OF PAPERS
ORIGINALLY FILED

PATENT
U.C. # 89-053-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of)	
NAPOLEONE FERRARA, DENIS)	
GOSPODAROWICZ and JEAN PLOUET)	
Serial No.: 360,235)	Group Art Unit: 186
Filed: June 1, 1989)	Examiner: S. Guest
For: ENDOTHELIAL CELL GROWTH)	
FACTOR, METHODS OF ISOLA-)	
TION AND EXPRESSION)	

Hon. Commissioner of Patents
and Trademarks
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on April 30, 1992.

Howard M. Peters (Reg No. 29,202)

INFORMATION DISCLOSURE STATEMENT SUPPLEMENTAL
37 C.F.R. 1.56 AND 1.97

Sir:

The citations below (copies below), which recently came to the attention of Applicants' attorney, may be material to the examination of the above-identified application and are, therefore, submitted in compliance with the duty of disclosure in 37 C.F.R. 1.56 and 1.97.

A number of these references were published after the filing date of the present or a parent patent application.

The Examiner is requested to make these citations of official record in this application.

1. G. Beck et al., "Isolation and Characterization of A Vascular Permeability Factor from Stimulated U937 Cells," J. Leukocyte Biol., Vol. 42:5 (1987) p. 568, is an abstract describing the isolation of a vascular permeability factor (VPF) isolated from macrophage cell line U937.

2. J. N. Bruce et al., "Vascular permeability induced by protein product of malignant brain tumors: inhibition by dexamethasone," J. Neurosurg., Vol 67 (1987), pp. 880-884 describe an activity caused by a vascular permeability factor (VPF) found in conditioned medium from cultures of malignant human astroglial (brain) tumors. No sequence data are given for the factor.

3. G. R. Criscuolo et al., "Further characterization of malignant glioma-derived vascular permeability factor," J. Neurosurg., Vol. 69 (1988), pp. 254-262 describe the VPF referred to in Ref. 2 above. The factor was purified 1000 fold and postulated to have a molecular weight of 42-56 kD. No sequence data is disclosed.

4. D. Gospodarowicz et al., "Isolation and characterization of a vascular endothelial cell mitogen produced by pituitary-derived folliculo stellate cells," Proc. Nat. Acad. Sci., Vol. 86 (1989), pp. 7311-7315, published after the effective filing date of

the present application, describes work done by one of the inventors on the presently claimed FSdGF. An N-terminal sequence of the factor is given.

5. J. Plouet et al., "Isolation and characterization of a newly identified endothelial cell mitogen produced by AtT-20 cells," EMBO J., Vol. 8:12 (1989), pp. 3801-3806, published after the effective filing date of the present application describes a human vascular permeability factor, termed hVPF; the N-terminal sequence of HVPF is disclosed. The sequence was found to be similar to the sequence of guinea pig VPF.

6. G. Conn et al., "Purification of a glycoprotein vascular endothelial cell mitogen from a rat glioma-derived cell line," Proc. Nat. Acad. Sci. USA, Vol. 87 (1990), pp. 1323-1327, published after the effective filing date of the present application, describes the purification of a glioma-derived vascular endothelial growth factor (GD-VEFG). An amino acid composition, but not a sequence, is disclosed. The authors state that the disclosed proteins may--or may not--be equivalent to the protein disclosed by Ferrara et al., which is presumptively the presently claimed VEGF.

7. G. Conn, "Amino acid and cDNA sequences of a vascular endothelial cell mitogen that is homologous to platelet-derived growth factor," Proc. Nat. Acad. Sci. USA, Vol. 87 (1990), pp. 2628-2632, published after the effective filing date of the present application, discloses the complete sequence of the GD-VEGF disclosed in Ref. 6 herein. Homology to platelet derived growth

factor (PDGF) is reported. The paper reports that the sequence of GD-VEGF is 90% similar to a recently reported VEGF sequence, and VEGF sequence (presumably derived from work on the presently claimed protein) is identical to the sequence of VPF.

8. D. R. Senger et al., "Purification and NH₂-Terminal Amino Acid Sequence of Guinea Pig Tumor-secreted Vascular Permeability Factor," Cancer Res., Vol. 50 (1990), pp. 1774-1778, published after the effective date of the present application, disclose an N-terminal sequence of guinea pig VPF. No similarity between this sequence and previously reported sequences (in the PIR/NBRF sequence database) was found. A note added in the proof cites the work of others relating to VEGF, but no disclosure is made regarding similarity or dissimilarity between VEGF and VPF. The disclosed sequence is not identical to the sequence presently claimed, although visual inspection reveals some similarities between the two sequences.

9. N. Ferrara et al., "The Vascular Endothelial Growth Factor Family of Polypeptides," J. Cell. Biochem., Vol. 47 (1991), pp. 211-218, published after the effective filing date of the present application, is a review of the vascular endothelial growth factors family of polypeptides. The existence of four species of VEGF polypeptides is disclosed.

10. C. de Vries et al., "The fms-Like Tyrosine Kinase, a Receptor for Vascular Endothelial Growth Factor," Science, Vol. 255 (1992), pp. 989-991, published after the effective filing date of

479.58-3

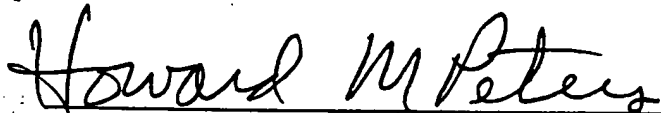
PATENT
U.C. # 89-053-3

the present application is directed to a receptor for VEGF. An introductory portion of the reference discloses the identity of VPF and VEGF sequences.

This Information Disclosure Statement under 37 C.F.R. and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

If the Examiner has any questions regarding the cited art, she is encouraged to call the undersigned attorney (collect) at (415) 421-2674.

Respectfully submitted,



Howard M. Peters (Reg. No. 29,202)
for

PHILLIPS, MOORE, LEMPIO & FINLEY
177 Post Street, Suite 800
San Francisco, California 94108
Attorneys for Applicant

HMP:cl/kw

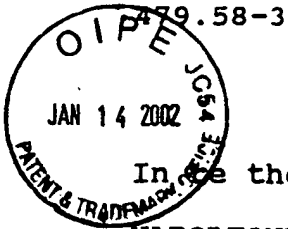
Tel: (415) 421-2674

Fax: (415) 421-1663

Enclosures: As listed above

COPY OF PAPERS
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PATENT
U.C. # 89-053-3



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of)

NAPOLEONE FERRARA, DENIS)
GOSPODAROWICZ and JEAN PLOUET)

Serial No.: 360,235)

Filed: June 1, 1989)

For: ENDOTHELIAL CELL GROWTH)
FACTOR, METHODS OF ISOLA-)
TION AND EXPRESSION)

Group 180

Group Art Unit: 186

Examiner: S. Guest

Hon. Commissioner of Patents
and Trademarks
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231 on June 18, 1991.

Howard M. Peters

Howard M. Peters (Reg. No. 29,202)

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. 1.56 AND 1.97

Sir:

The citations below, copies attached, may be material to the examination of the above-identified application and are, therefore, submitted in compliance with the duty of disclosure in 37 C.F.R. 1.56 and 1.97.

The Examiner is requested to make these citations of official record in this application.

1. D.T. Connolly et al., U.S. Patent 5,008,196, issued April

16, 1991, class 435/240.2.

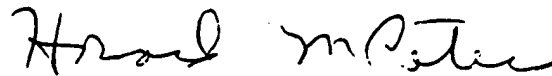
2. California Biotechnology, Inc., International Publ. No. WO 91/02058, published 21 February 1991, PCT/US90/04227, filed 27 July 1990.

3. Edmund Tischer et al., "Vascular Endothelial Growth Factor: A New Member of the Platelet-Derived Growth Factor Gen Family," Biochemical & Biophysical Research Communications, Vol. 165 (3), pp. 1198-1206.

This Information Disclosure Statement under 37 C.F.R. and 1.97 is not to be construed as a representation that a search has been made, that additional information material to any examination of this application does not exist, or that anyone or more of these citations constitutes prior art.

If the Examiner has any questions regarding the cited Art, she is encouraged to call the undersigned attorney (collect) at (415) 421-2674.

Respectfully submitted,



Howard M. Peters (Reg. No. 29,202)
for
PHILLIPS, MOORE, LEMPPIO & FINLEY
177 Post Street, Ste. 800
San Francisco, CA 94108
Attorneys for Applicants

HMP:cl
(415) 421-2674



58-3

COPY OF PAPERS
ORIGINAL FILEDPATENT
U.C. # 89-053-3IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re the Application of
NAPOLEONE FERRARA, DENIS
GOSPODAROWICZ and JEAN PLOUET

Serial No.: 360,235

Filed: June 1, 1989

For: ENDOTHELIAL CELL GROWTH
FACTOR, METHODS OF ISOLA-
TION AND EXPRESSION

Group 180

Group Art Unit: 186

Examiner: S. Guest

Hon. Commissioner of Patents
and Trademarks
Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States postal Service as first class mail in an envelope addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231 on October 25, 1990.

Howard M. Peters (Reg. No. 29,202)

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56 AND 1.97

Sir:

The citations below, copies attached, may be material to the examination of the above-identified application and are, therefore, submitted in compliance with the duty of disclosure in 37 C.F.R. 1.56 and 1.97.

The Examiner is requested to make these citations of official record in this application.

1. H.F. Dvorak, et al., U.S. Patent 4,456,550, issued June 26, 1984, class 260/112R.

2. European Patent Application Publication 0370,989, published May 30, 1990, class C12N 15/12.

3. H.F. Dvorak, et al. WO 84/02135, PCT, published June 7,

1984, Int. Class C07G 7/00.

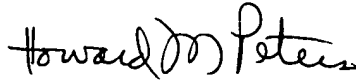
4. D.W. Leung, et al., "Vascular Endothelial Growth Factor Is a Secreted Angiogenic Mitogen", Science, Vol. 246, p. 1306 (December 8, 1989).
5. P.J. Keck, et al., "Vascular Permeability Factor, an Endothelial Cell Mitogen Related to PDGF", Science, Vol. 246, p. 1309, (December 8, 1989).
6. G.E. Lemke, et al., "Identification and Purification of Glial Growth Factor", Journal of Neuroscience, Vol. 4, No. 1, p. 75 (January 1984).
7. N. Ferrara, et al., "Pituitary Follicular Cells Secrete a Novel Heparin-Binding Growth Factor Specific for Vascular Endothelial Cells", Biochemical and Biophysical Research Communications Vol. 161, No. 2, p. 851, (June 15, 1989).
8. D. Gospodarowicz, et al., "Isolation and Characterization of a Vascular Endothelial Cell Mitogen Produced by Pituitary Derived Folliculo Stellate Cells", Biochemistry, Vol. 86 p. 882 (1989).
9. D. Gospodarowicz, et al., "Pituitary Follicular Cells Secrete Both Vascular Endothelial Cell Growth Factor and Follistatin" as submitted earlier to related U.S. Patent Application Serial No. 07/346,169 filed May 2, 1990.
10. N. Ling, et al., "Isolation and partial characterization of a M_r 32,000 protein with inhibin activity from porcine follicular fluid", Biochemistry, Vol. 82, p. 7217 (November 1985).
11. N. Ueno, et al., "Isolation and partial characterization of follistatin: A single-chain M_r 35,000 monomeric protein that inhibits the release of follicle-stimulating hormone", Biochemistry, Vol. 84, p. 8282 (December 1987).
12. S. Shimasaki, et al., "Porcine Follistatin Gene Structure Supports Two Forms of Mature Follistatin Produced by Alternative

479.58-3

PATENT
U.C. # 89-053-3

If the Examiner has any questions regarding the cited Art, she is encouraged to call the undersigned attorney (collect) at (415) 421-2674.

Respectfully submitted,



Howard M. Peters (Reg. No. 29,202)
for
PHILLIPS, MOORE, LEMPPIO & FINLEY
177 Post Street, Ste. 800
San Francisco, CA 94108
(415) 421-2674
Attorneys for Applicant

HMP:cal
A:479-58.3/disclosure

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FORM PTO-1449 (Modified)

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

479.58-3

SERIAL NO.

O/ 360,235

APPLICANT

N. FERRARA et al.

FILING DATE

6/1/89

GROUP

186

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		5 0 0 8 19 6	4/16/91	Connolly et al.	435/240	2	
AB							
AC							
AD							
AE							
AF							
AG							
AH							
AI							
AJ							
AK							

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
AL		W 0 9 1 0 2 0 5 8		published 21/2/91 Patent Cooperation Treaty				
AM								
AN								
AO								
AP								

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR		Edmund Tischer et al., "Vascular Endothelial Growth Factor: A New Member of the Platelet-Derived Growth Factor Gene Family," Biochemical & Biophysical Research Communications, Vol.165(3), pp. 1198-1206.
AS		
AT		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FOR PTO-1449 (Modification)

LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANTS INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

479.58-3

SERIAL NO.

or 360,235

APPLICANT Napoleone Ferrara, et al.

FILING DATE June 1, 1989

GROUP

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 6 7 0 3 9 4	6/2/87	H.B. POLLARD et al	435	240	Nov 16, 19
	4 8 0 1 5 4 2	1/31/89	M.J. MURRAY et al	435	172.3	Feb 25, 19
	4 7 3 8 9 2 7	4/19/88	T, TANIGUCHI et al	435	243	Feb 3, 19
	4 7 8 3 4 1 2	11/8/88	G.I. BELL, et al	435	240.1	Jun 3, 19
	4 7 2 1 6 7 2	1/26/88	B.L. VALLEE, et al	435	70	Sep 20 19

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES N

OTHER

ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

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FOR PTO-1449 (Modified)

**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANTS INFORMATION DISCLOSURE
STATEMENT**

(Use several sheets if necessary)

ATTY. DOCKET NO. 479.58-3

SERIAL NO.

0/360,235

APPLICANT NAPOLEONE FERRARA, et al.

FILING DATE June 1, 1989

GROUP 186

REFERENCE DISCLOSURE U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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E								
F								
G								
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OTHER

**ART (Including Author, Title, Date, Pertinent Pages,
Etc.)**

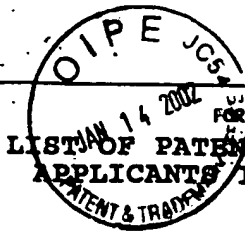
J	1	G. Beck et al., "Isolation and Characterization of a Vascular Permeability Factor from Stimulated U937 Cells", J. Leukocyte Bio. Vol. 42:5 (1987), p. 568.
K	2	J.N. Bruce et al., "Vascular Permeability induced by protein product of malignant brain tumors: inhibition by dexamethasone", J. Neurosurg., Vol. 67 (1987), pp. 880-884.
L	3	G.R. Criscuolo et al., "Further characterization of malignant glioma-derived vascular permeability factor", J. Neurosurg., Vol. 69 (1988), pp. 254-262.
M	4	G. Gospodarowicz et al., "Isolation and characterization of a vascular endothelial cell mitogen produced by pituitary-derived folliculo stellate cells", Proc. Nat. Acad. Sci., Vol. 86 (1989), pp. 7311-7315.
N	5	J. Plouet et al., "Isolation and characterization of a newly identified endothelial cell mitogen produced by AtT-20 cells", EMBO J., Vol. 8:12 (1989), pp. 3801-3806.

EXAMINER

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FOR PTO-1449 (Modified)
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0/360,235

APPLICANT NAPOLEONE FERRARA, et al.

FILING DATE June 1, 1989

GROUP 186

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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B						
C						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
D							
E							
F							
G							
H							

OTHER

**ART (Including Author, Title, Date, Pertinent Pages,
Etc.)**

J	6	G. Conn et al., "Purification of a glycoprotein vascular endothelial cell mitogen from a rat glioma-derived cell line", Proc. Nat. Acad. Sci. USA, Vol. 87 (1990), pp. 1323-1327.
K	7	G. Conn, "Amino acid and cDNA sequences of a vascular endothelial cell mitogen that is homologous to platelet-derived growth factor", Proc. Nat. Acad. Sci., Vol. 87 (1990), pp. 2628-2632.
L	8	D.R. Senger et al., "Purification of NH ₂ -Terminal Amino Acid Sequence of Guinea Pig Tumor-secreted Vascular Permeability Factor", Cancer Res., Vol 50 (1990), pp. 1774-1778.
M	9	N. Ferrara et al., "The Vascular Endothelial Growth Factor Family of Polypeptides", J. Cell Biochem., Vol. 47 (1991), pp. 211-218.
N	10	C. de Vries et al., "The fms-Like Tyrosine Kinase, a Receptor for Vascular Endothelial Growth Factor", Science, Vol. 255 (1992), pp. 989-991.

EXAMINER

DATE CONSIDERED

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U.C. 89-053-3

FORM PTO-1449 (Modified)

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STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

479.58-3

SERIAL NO.

360,235

APPLICANT

NAPOLEONE FERRARA ET AL.

FILING DATE

June 1, 1989

GROUP

186

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4 4 5 6 5 0	6/26/84	Dvorak	260	112R	
	AB						
	AC						
	AD						
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	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	AL	0 3 7 0 9 8 9	6/30/90	Brussels	C12N	15/12	
	AM	W O 84/0 2 1	6/7/84	PCT	C07G	7/00	
	AN						
	AO						
	AP						

OTHER

ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	D.W. Leung, Science, Vol. 246, p. 1306, (December 8, 1989).
	AS	P.J. Keck, et al. Science, Vol. 246, p. 1309, (December 8, 1989).
	AT	G.E. Lemke, et al. Journal of Neuroscience, Vol. 4 No. 1, p. 75 (January 1984).

EXAMINER

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(Information Disclosure Statement—Section 9 PTO-1449 (Modified) (6-1), page 1 of 6



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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		ATTY. DOCKET NO. 479.58-3		SERIAL NO. 360,235			
		APPLICANT Napoleon Ferrara et al.					
		FILING DATE June 1, 1989		GROUP 186			
REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	N. Ferrara, et al., Biochemical and Biophysical Research Communications, Vol. 161, No. 2, p. 851 (June 15, 1989)					
	AS	D. Gospodarowicz, et al. Biochemistry, Vol. 86 p. 882 (1989).					
	AT	D. Gospodarowicz, et al. as submitted earlier to related U.S. Patent Appl. Ser. No. 07/346,169, filed May 2, 1990.					
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479.58-3

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Napoleon Ferrara et al.

FILING DATE
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AR	N. Ling, et al. <u>Biochemistry</u> , Vol. 82, pg. 7217 November 1985).
AS	N. Ueno, et al., <u>Biochemistry</u> Vol. 84, pg. 8282 (December 1987).
AT	S. Shimasaki, et al., <u>Biochemical and Research Communications</u> , Vol. 152, pg. 717, (April 29, 1988).

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AR	D. M. Robertson et al. Biochemical Biophysical Research Communications, Vol. 149, No. 2, pg. 744 (December 16, 1987).
AS	D.R. Senger, et al. Cancer Research, Vol. 46 p. 5629, (November 1986).
AT	D.T. Connolly, et al., J. Clinical Investigation, Vol. 84 p. 1470 (November 1989).

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Napoleon Ferrara, et al.

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AR	D.T. Connelly, et al., Journal of Biological Chemistry Vol. 264, #44, p. 20017 (1989).
AS	F.Ishikawa, et al., Nature, Vol. 338 pg. 557 (April 1989).
AT	D.R. Senger et al., Science, Vol. 219 p. 983 (Feb. 25, 1983).

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		APPLICANT Napoleon Ferrara, et al.	
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AR	J.S. Rubin, et al. Proc. Natl. Acad. Sci, U.S.A., Vol. 86 p. 802, (February 1989).
AS	
AT	

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